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S/056/60/039/006/010/063 B006/B056

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Romanov, A. M.

AUTHOR:

Excitation of the Levels of the Si³⁰-Nucleus

PERIODICAL:

Card 1/3

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 6(12), pp. 1540-1541

TEXT: The author checked the $\rm Si^{30}$ -level energies measured by other authors by investigating the proton energy spectrum of the reaction $\rm Al^{27}(\alpha,p)Si^{30}$ at α -energies of 10.4, 13.65, and 14.7 Mev. The alpha particle beam coming from the cyclotron was focused by means of quadrupole lenses, collimated, and directed onto a 0.13 mg/cm² thick aluminum target at an angle of 45°. The target was located in a brass chamber, within which nuclear photographic plates of the type \Re -2 (Ya-2) were arranged round the target at a distance of 206 mm. The plates were in boxes, whose windows, which were closed by means of aluminum foils, faced the target. After exposure, the plates were subjected to the usual treatment; the length of the proton

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Excitation of the Levels of the Si³⁰-Nucleus S/056/60/039/006/010/063

tracks was measured by means of a M 5 N-2 (MBI-2) microscope. For determining the level energies, the formula

 $Q_i = E_{pi}(1+m_p/m_r) - E_{\alpha}(1-m_{\alpha}/m_r) - 2\cos\theta \sqrt{E_{pi}E_{\alpha}m_p^m_{\alpha}/m_r}$ was used, where

Q denotes the energy of the reaction with excitation of the i-th level Q denotes the energy of the reaction with excitation of the i-th level of the final nucleus, m_p , m_α , and m_r denote the mass of proton, α -particle, and residual nucleus, respectively. E_α is the energy of the α -particles in the laboratory system, E_p - the mean energy of the proton group produced in reactions under formation of a final nucleus in the i-th state, Θ - the angle of departure of protons in the laboratory system (60 or 90); angle of departure of protons in the laboratory system (60 or 90); angle of departure obtained are given in a table and compared $Q_0 = 2.38$ MeV. The results obtained are given in a table and compared with those obtained by other authors. The author thanks L. N. Goryachey for his collaboration; B. P. Dzhelepov and L. L. Peker are mentioned. There are 1 table and 7 references: 1 Soviet, 1 British, and 5 US.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Institute of Physics and Technology of the

Card 2/3

Academy of Sciences USSR)

88425

Excitation of the Levels of the Si³⁰-Nucleus S/056/60/039/006/010/063 B006/B056

SUBMITTED:

June 30, 1960

| Text to the Table: 1) Level | |
|-------------------------------|------------|
| number of the Si30-nucleus. | Номе |
| 2) Level energies according | ; <u>4</u> |
| to data of Ref. 5. 3) dto. | |
| according to data of Ref. 6. | |
| 4) according to data of Ref. | 7. |
| 5) Values measured by the au- | . : |
| thor. All energies are given | in ! |
| Mev. | , , |

| | Энергия уровия, МеУ | | | | | | | | | | | |
|---|---|---|-----------------------------|--|--|--|--|--|--|--|--|--|
| Номер уровня | по данным 🏖 [⁸] | по данным З [1] | по дан- <i>ф</i> ими [*] | 5 яаши даяные | | | | | | | | |
| 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | 2,258±0,006 3,518±0,007 3,798±0,009 4,85±0,01 ——————————————————————————————————— | 2,23±0,02 3,52±0,02 3,80±0,04 4,83±0,02 5,28±0,02 5,52±0,03 5,94±0,04 | 3,65 | 2,26±0,05 3,50±0,06 3,82±0,06 4,80±0,06 5,30±0,08 5,48±0,07 6,68±0,07 7,06±0,07 7,06±0,07 7,40±0,08 7,76±0,09 8,44±0,09 8,80±0,10 9,38±0,10 9,38±0,10 9,70±0,10(7) 9,66±0,10 11,06±0,10 | | | | | | | | |

Card 3/3

TSAREVA, T.V.; ROMANOV, A.M.; MYAKININ, Ye.V.; KONSTANTINOVA, M.P.

12 (4,p)N reaction of 13,6 Mev. alpha particles. Isv. AN Uz. SSR.
Fiz.—1. nauk no.1:84-85'161.

1. Fiziko-tekhnicheskiy institut AN SSSR.
(Alpha rays) (Nuclear reactions)

33115 5/638/61/001/000/042/056 B108/B138

SOURCE:

Konstantinova, M. P., Myakinin, Ye. V., Romanov, A. M., AUTHORS:

Tsareva, T. V.

Angular distribution of protons from $C^{12}(\alpha,p)N^{15}$ with

TITLE: 14.5-Mev alphas

Tashkentskaya konferentsiya po mirnomy ispol'zovaniyu atomnoy

energii. Tashkent, 1959. Trudy. v. 1. Tashkent, 1961,

TEXT: A study of the angular distribution of protons from (α,p) reactions may give insight into the direct interaction between alphas and nucleons.

The authors studied the $C^{12}(\alpha,p)N^{15}$ reaction with alpha particles of an energy of 14.5 Mev, obtained from the cyclotron at the Physicotechnical Institute (see Association entry). The target consisted of a gold foil (0.25 mg/cm2) covered with a thin layer of carbon black. The differential cross section of the above reaction with N15 in the ground state was determined from the histograms of the proton tracks (Fig. 3). The overall error was about 10%. Experiments with a carbon target without gold

Card 1/3

33115 S/638/61/0C1/000/042/056 B108/B138

Angular distribution of protons ..

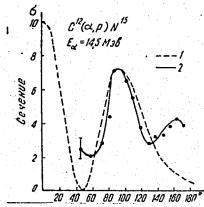
backing showed that in the range 20-40° (lab system) the cross section increases rather more with decreasing angle than was expected by theory. The results indicate that the principal direct interaction process in the case considered is the "knocking-out" of protons from the nucleus by alphas. Best agreement of experimental and theoretical data was reached when the interaction radius was assumed to be equal to $4.8 \cdot 10^{-13}$ cm. The somewhat high theoretical values of the cross section in the range 60-1300 (c.m.s.) are due to the assumption that the incident and departing particles do not interact with the nucleus. The increase in the reaction cross section in the range 140-1700 may be regarded as confirmation of the stripping of heavy particles. The anisotropic character of the angular distribution is also conserved when the energy of the alpha particles decreases. This speaks in favor of direct interactions playing the main part in the $c^{12}(\alpha,p)N^{15}$ reaction at the energy under consideration. There are 3 figures and 11 non-Soviet references. The four most recent references to English-language publications read as follows: Butler S. T. Phys. Rev., 106, 272, 1957; Pieper G. F., Heydenburg N. P. Phys. Rev., 111, 264, 1958; Kerlee D. D. et al. Phys. Rev., 107, 1343, 1957; Igo G., Thaler R. M. Phys. Rev., 106, 126, 1957. Card 2/3

33115 s/638/61/001/000/042/056 B108/B138

Angular distribution of protons ...

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical Institute AS USSR)

Fig. 3. Angular distribution of protons from $C^{12}(\alpha,p)N^{15}$ at alpha energy 14.5 Mev. Legend: abscissa - differential reaction cross sections. (1) Calculated, (2) experimental.



Card 3/3

RCMANOV, A.M.; MYAKININ, Ye.V.; KONSTANTINOVA, M.P.

Ne² levels excited in the reaction F19 (\(\alpha\) p)Ne²².

Izv. AN SSSR. Ser. fiz. 25 no.9:1135-1137 '61.

(MIRA 14:8)

1. Fiziko-tekhnicheskiy institut AN SSSR.

(Neon--Isotopes)

(Nuclear reactions)

ROMANOV, A.M.; MYAKININ, Ye.V.; KONSTANTINOVA, M.P.

Excited levels of Ne²². Zhur.eksp.i teor.fiz. 41 no.1:64-65 Jl
(MIRA 14:7)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Neon-Isotopes) (Nuclear reactions) (Protons-Spectra)

ROMANOU, A.M.

PHASE I BOOK EXPLOITATION

SOV/6309

Starodubtsey, S. V., and A. M. Romanov

Prokhozhdeniye zaryazhennykh chastits cherez veshchestvo (Penetration of Charged Particles Through Matter) Tashkent, Izd-vo AN UzSSR, 1962. 226 p. 2500 copies printed. Added t.p. in Uzbek.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR. Fiziko-tekhnicheskiy institut.

Ed.: I. G. Gaysinskaya; Tech. Ed.: Kh. U. Karabayeva.

PURPOSE: The book is intended for staff members of research institutes, teachers at higher educational institutions, and students of advanced courses in physics departments.

Card 1/4_

至127015的联邦的理解1544年,为证据明 有些中国的研究。北京各种中央中华中

SOV/6309 Penetration of Charged (Cont.) COVERAGE: Theoretical fundamentals of the interaction of charged particles with matter are presented, and the results of experimental investigations on the penetration of charged particles and electrons through matter are examined. The basic emphasis is on problems concerning the loss of energy and the ionization produced by charged particles. No personalities are mentioned. There are 520 references, most of them to books and journals in English. TABLE OF CONTENTS: 5 Ch. I. Passage of Heavy Charged Particles Through Matter 5 1. Introduction 2. Elastic collisions and energy transfer in elastic scattering 8 of particles by nuclei (atoms) 3. Excitation of nuclei and nuclear reactions caused by fast 39 charged particles 4. Theory of energy losses during inelastic collisions of particles with atomic electrons Card 2/4/

S/903/62/000/000/005/044 B102/B234

AUTHORS:

Tsareva, T. V., Romanov, A. N., Myakinin, Ye. V.,

Konstantinova, M. P.

TITLE:

The (α,p) -reaction on carbon and the anomalies arising at

α-particle energies of 10 - 15 Nev

SOURCE:

Yadernyye reaktsii pri malykh i srednikh energiyakh; trudy. Vtoroy Vsesoyuznoy konferentsii, iyul' 1960 g. Ed. by

A. S. Davydov and others. Moscow, Izd-vo AN SSSR, 1962, 123-132

TEXT: The reaction $C^{12}(\alpha,p)N^{15}$ was investigated with the aim of determining the role of the various possible mechanisms of direct interaction and the reaction $A1^{27}(\alpha,p)Si^{30}$ in order to obtain data on the high energy levels of Si^{30} and on the role of the direct mechanisms in Si^{30} formation in the ground and first excited states. The experiments were made with the α -beam of the cyclotron of the FTI AN SSSR with $100-\mu$ $\lambda-2$ (Ya-2) emulsion plates and targets enclosed in a spherical brass chamber (500 mm diam). The angular distribution measurements were made in the intervals 10-50, 50-90, 80-140 and $130-170^{\circ}$ (lab system). The proton angular distributions for the $C^{12}(\alpha,p)$ Card 1/3

The (α,p) -reaction on...

S/903/62/000/000/005/044 B102/B234

reaction were made with soot targets on 0.25 mg/cm² gold foils and a 120 μ Al filter which served for eliminating the elasticity scattered alphas and the proton groups corresponding to formation of N¹⁵ nuclei in excited states. The experimental results are compared with theoretical considerations based on the formula for do/d Ω derived by Austern et al. (Phys. Rev., 92, 350, 1953), the wave vector of the recoil nucleus is determined from the masses and the wave vectors of the particles involved. The theoretical curve describes qualitatively the angular distribution measured. The Si³⁰ levels excited in (α ,p) reactions are determined and compared with published data (Proc. Phys. Soc., 73, 793, 1959; Bull. Amer. Phys. Soc., 1, 280, 1956; Phys. Rev., 76, 624, 1949). The results are given in the table. Also the angular distribution of the protons from the reaction Al²⁷(α ,p)Si³⁰ was determined; the Al target foils were 0.5 mg/cm² thick and were exposed to long-time bombardment. The reaction cross section in the interval 40-120° was almost independent of the angle and lay between 15 and 20 μ b/steradian (E_{α} = 14.7 Mev). The shape of the angular distribution in the interval 50 - 140° was only weakly dependent on E_{α}. The distribution

| | action on B10 | 2/B234 | |
|---------------------------------|---|-------------------|--------------------------|
| $d\sigma/d\Omega = f(\theta_c)$ | .m.s.) has three maxima which are | no. | E, Mev |
| | tly marked in the case of | | 2,26±0,05 \ |
| $\alpha = 14.7 \text{ Me}$ | v than with E_{α} = 10.4 Mev. They | 2 | 3,50±0,06 |
| | 20, 80 and 1600 . There are | 3 | 3,82±0,06 |
| figures an | d 1 table. | | 4,80±0,06 |
| COOGTIMEON | | 6 | 5,30±0,08) 5,48±0.08 |
| SSUCTATION: | Leningradskiy fiziko-tekhnicheskiy institut AN SSSR (Leningrad | 714 | 5,70±0,08 |
| | Physicotechnical Institute AS USSR) | 8 | 6,08±0,07 |
| | | 9 10 | 6,68±0,07 7,06±0,07 |
| | | 11 | 7,40±0,08 |
| | | 12 | 7,76±0,08 |
| | | | 8,44±0,00 8,80±0,10 |
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| | 기가 하는 하다 그는 아이들의 사람들은 사람들은 사람들에 대한 생각을 보고 있다. | | |

33794 S/108/62/017/002/009/010 D201/D305

6,9411 (1159)

Davydov, V.S., and Romanov, A.M., Members of the So-

ciety (see Association) AU THORS:

Passage of pulse signals and of noise through a sta-

ggered tuned two-stage amplifier TITLE:

Radiotekhnika, v. 17, no. 2, 1962, 64 - 70 PERIODICAL:

TEXT: The authors consider the effect of staggered tuning, expressed as the ratio $m = f_{02}/f_{01}$, of two stages of equal Q's in the passage through the amplifier of step- and linearly increasing voltages; they consider also the effect of noise having a constant 1/f varying spectral density. The analysis makes it possible to evaluate the S/N ratio as a function of m and Q. The output voltage resulting from the step- and linearly varying input voltages is determined by assuming: $U_1(t) = 1(t)$ and $U_1(t) = at(1(t))$, taking their Laplace transforms, multiplying the transforms by the transform of the transfer function of the amplifier and by drawing the

Card 1/3

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Passage of pulse signals and of ...

S/108/62/017/002/009/010 D201/D305

graphs of the output voltage in both cases as a function of Q < 0.5. The graphs show that with a decreased staggering the time during which the output signal reaches its maximum (t_1) and then becomes zero (t_2) increases. The duration of t_1 and t_2 of the amplifier response to a step-input is less than that for a linearly increasing input voltage. The passage of white and frequency-dependent noise through the amplifier is analyzed by taking the r.m.s. value of noise in an infinitely narrow band df, from which the r.m.s. value of this noise at the output is evaluated as

where

$$\overline{U}_{\mathbf{f}}^{t} = \int_{0}^{\infty} W'(f) \kappa^{2}(f) df.$$

$$\kappa(f) = |\kappa(if)|.$$

$$\kappa^{2}(f) = \frac{\kappa_{0}^{2}}{\left\{1 + \left[Q\left(\frac{f}{f_{01}} - \frac{f_{01}}{f}\right)\right]^{2}\right\} \left\{1 + \left[Q\left(\frac{f}{mf_{01}} - \frac{mf_{01}}{f}\right)\right]^{2}\right\}}.$$

in which $K_0^2 = K_{01} \cdot K_{02}$ (overall gain at resonance). The graphs of Card 2/3

33794

Passage of pulse signals and of ...

S/108/62/017/002/009/010 D201/D305

(3) for m=1, $\sqrt{2}$ and 2 are shown as a function of Q. By combining the results of the two parts of the analysis, the ratios of the instantaneous values of output voltage at its first maximum to the r.m.s. value of noise at the output is easily determined. The authors acknowledge helpful suggestions by G.V. Voyshvillo. There are 2 tables, 10 figures and 2 Soviet-bloc references.

ASSOCIATION:

Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov)[Abstractor's note: Name of Association taken from first page of journal]

SUBMITTED:

March 28, 1961

Card 3/3

\$/056/62/043/002/006/053 B102/B104

AUTHORS: Konstantinova, M. P., Myakinin, Ye. V., Petrov, A. M.,

Romanov, A. M.

TITLE: ingular distributions of protons from (0,p)-reactions induced

by alpha particles of 13-15 Mev

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 2(8), 1962, 388 - 393

TEXT: To study the mechanism of (up) direct interaction, the authors determined the energy and angular distributions of protons from the reactions ${\rm Li}^6(\alpha,p){\rm Be}^9$, ${\rm Li}^7(\alpha,p){\rm Be}^{10}$, ${\rm F}^{19}(\alpha,p){\rm Ne}^{22}$, and ${\rm Al}^{27}(\alpha,p){\rm Si}^{50}$ at ${\rm E}_\alpha=13-15$ MeV. The experimental arrangement was the same as that described in ZhETF, 39, 1540, 1960. The charged particles were recorded by 9-2 (Ya-2) nuclear emulsion plates. The plates were arranged so as to comprise the angle intervals 10-50, 50-90, 80-140, and 130-170°. In the c.m.s. all angular distribution curves $\sigma(\theta)$ show: (1) several maxima and

Card 1/2

S/056/62/045/002/006/055

Angular distributions of protons ...

minima; (2) asymmetry with respect to $\theta=90^\circ$; and (3) an increase of of for large proton emission angles ($\theta>120^\circ$). These results agree with those of analogous reactions at $E_\alpha=18$ -40 MeV. The characteristic features of the $\sigma(\theta)$ curves indicate the importance of direct interaction between nucleus and α -particles. The residual nuclei of the reactions $F^{19}(\alpha,p)Ne^{22}$ and $Al^{27}(\alpha,p)Si^{30}$ at $E_\alpha=13$ -15 MeV are mainly in the excited state. The intensity of the p_0 proton group ($Li^6(\alpha,p)Be^9$; $Li^7(\alpha,p)Be^{10}$) is less than that of the p_1 and p_2 groups ($F^{19}(\alpha,p)Ne^{22}$; $Ll^{27}(\alpha,p)Si^{30}$). The p_2 angular distribution of the F^{19} reaction does not contradict the assumption that the second excited level in Ne^{22} is a $2^{\frac{1}{2}}$ level. There are 6 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe ikademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

SUBMITTED: February 23, 1961

Card 2/2

\$/057/63/033/002/012/023 B108/B186

AUTHORS:

Bel'skiy, S. A., Myskinin, Ye. V., Petrov, A. M.,

Romanov, A. M., and Yur yev, V. V.

TITLE:

The energy transfer to the wall of the discharge chamber in

the "Alpha" machine

Zhurnal tekhnicheskoy fiziki, v. 33, no. 2, 1963, 212 - 213 PERIODICAL:

TEXT: The energy was measured with integral-type semiconductor and wire bolometers connected to a measuring bridge. The vacuum in the hydrogen plasma was 5.10-5 - 2.10-3 mm Hg. The energy measured by the detectors rises monotonically with the voltage at the discharge capacitor battery. This dependence is slightly less than in accordance with a square law. Experiments with scintillation and boron counters and with a CaSO_-Lin

thermo-luminophor showed that the energy transferred to the wall by shortwave electromagnetic radiation is not more than 10% of the plasma energy. A larger part of energy lost to the walls must be due to other processes (neutral particles; ZhTF, 30, 12, 1419, 1960).

SUBMITTED: April 9, 1962 Card 1/1

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| ROMANOV, | | | | | | | | | | | | | |
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ROMANOV, A.N.

Automatic banding of wild animals and the outlook for its application [with English summary in insert]. Zool.zhur.35 no.12:1902=1905 D '56.

(MLRA 10:1)

1. Komi filial Akademii nauk SSSR.

(Zoological research)

| | First ex | perimen 9 no.3 | t in au :465-46 | itomatic | banding | of tetr | anoid b | irds. Zool. (MIRA 13:6 |) |
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LOZINSKIY, M.G. (Moskva); ROMANOV, A.N. (Moskva)

Basic types of deformed microreliefs originating on the surface of commercial-grade iron samples during fatigue tests with heating in a vacuum. Mashinovedenie no.3:56-65 '65. (MIRA 18:6)

LOZINSKIY, M.G., doktor tekhn. nauk; ROMANOV, A.N., inzh.

Present state of studying the nature of fatigue fracture of metals and alloys. Vest. mashinostr. 45 no.5:56-63 My '65. (MIRA 18:6)

| ACCESSION NR: AP5017207 AUTHORS: Lozinskiy, M. G.: Romanov, A. N.; Bochvar, A. A. TITLE: Concerning the mechanism of extrusion and intrusion displacement of microvolumes of alpha iron during fatigue tests under high temperature heating SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1277-1280 TOPIC TAGS: iron, mechanical fatigue, high temperature fatigue, fatigue test, crystal imperfection ABSTRACT: The authors report some results of observations of the fine structure of crystalline samples of technical iron, subjected to fatigue tests by alternating bending in one plane, and simultaneously to radiation heating in vacuum. The apparatus used for this purpose (IMASh-10) was developed by the authors and described by them earlier (Zav. lab.) ho. 2, 1965). The apparatus makes it possible to carry out fatigue tests and microstructure analysis of samples heated to 1200° under different mechanical loading conditions. The tests were | | L 3378-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(h)/EWP(h)/EWP(b)/EWP(1) |
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| AUTHORS: Lozinskiy, M. G.; Romanov, A. N.; Bochvar, A. A. TITLE: Concerning the mechanism of extrusion and intrusion displacement of microvolumes of alpha iron during fatigue tests under high temperature heating SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1277-1280 TOPIC TAGS: iron, mechanical fatigue, high temperature fatigue, fatigue test, crystal imperfection ABSTRACT: The authors report some results of observations of the fine structure of crystalline samples of technical iron, subjected to fatigue tests by alternating bending in one plane, and simultaneously to radiation heating in vacuum. The apparatus used for this purpose (IMASh-10) was developed by the authors and described by them earlier (Zav. lab.) ho. 2, 1965). The apparatus makes it possible to carry out fatigue tests and microstructure analysis of samples heated to 1200° under different mechanical loading conditions. The tests were | | EWA(h)/EWA(c) IJP(c) JD |
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made on commercial iron of standard composition. Electron-microscope photographs of the tested samples show that the relatively straight glide lines, on the boundary of which the extrusion and intrusion takes place, are located at distances equal to (2--6) x 10³ crystal-lattice periods. The causes of occurrence of zones with increased displacement mobility at these intervals are not yet clear. It is deduced, however, from the existence of such an effect that during the time of the experiment the imperfections in the crystal become redistributed and move to individual glide planes. The kinetics of this effect is discussed in some detail. This report was presented by A. A. Bochvar. Orig. art. has: 4 figures

ASSOCIATION: Institut mashinovedeniya (Institute of the Science of Machines)

SUBMITTED: 19Nov64

ENCL: 00

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Card 2/2 md

LOZINSKIY, M.G.; ROMANOV, A.N.

Stroboscope for illumination during study of the fatigue kinetics in metals. Zav. lab. 31 no.2:244-246 '65. (MIRA 18:7)

1. Gosudarstvennyy nauchno-issledovateliskiy institut mashinovedeniya.

LOZINSKIY, M.G.; ROMANOV, A.N.

Mechanism of the extrusive and intrusive displacement of ∞ -iron microvolumes in fatigue tests at high temperatures. Dokl. AN SSSR 162 no.6: 1277-1280 Je 65. (MIRA 18:7)

1. Institut mashinovedeniya, Moskva. Submitted November 19, 1964.

LOWINSKIY, M. G.; ROMANOV, A. M. (Moseow)

"Some features of the fracture mechanism of commercial iron during fatigue tests within wide ranges of temperature."

report submitted for 2nd Conf, Dimensioning and Strength Calculations, Budapest, 5-10 Oct 1965.

EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/ EMP(1)/EMA(h)/EMA(c) Pf-4/Peb EM/JD ACCESSION NR: AP5014209 UR/0122/65/000/005/0056/0063 620.178.3 AUTHORS: Lozinskiy, M. G. (Doctor of technical sciences); Romanov, A. N. (Engineer) TITLE: State of the art of the study of fatigue failure in metals and alloys SOURCE: Vestnik mashinostroyeniya, no. 5, 1965, 56-63 TOPIC TAGS: fatigue, metal fatigue, fatigue failure, slip line, slip band, fatigue life / IMASh 10 apparatus ABSTRACT: The article presents a review of the state of the art of fatigue failure investigations. An elaborate chart of the different methods for studying the microstructure and the mechanical and physical properties of materials is presented (including methods used for high temperature fatigue). These methods are grouped under the broad classifications: a) light and electron microscopic and x-ray structural methods (for microstructure studies) b) measurements of elasticity and hardness (mechanical properties (g c) electrical, acoustical, magnetic, and ultrasonic characteristics (physical properites). It has been established by V. S. Ivanova (Ustalostnoye razrusheniye metallov. Metallurgizdat, 1963) Card 1/3

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ACCESSION NR: AP5014209

that fatigue cracks begin to appear after only 1-10% of the total fatigue life. The various microstructure methods used to study the formation and growth of these cracks have yielded the following general characteristics (see also Ya. B. Fridman, T. A. Gordeyeva, and A. M. Zaytsev. Stroyeniye i analiz izlomov. Mashgiz, 1960). Cyclic loading causes plastic shear within the grains, resulting in slip lines which grow in number and length (sometimes fragmenting the grains), form slip bands, and finally form microcracks which grow. If loaded below the endurance limit, the bands do not cross grain boundaries, and the cracks do not grow. The elastic property and microhardness effects in fatigue are treated respectively by I. A. Oding (Dopuskayemye napryazheniya v mashinostroyenii i tsiklicheskaya prochnost metallov. Mashgiz, 1962) and T. Jakobory (Damage as an Initial Stage of Fatigue Fracture. Journ. Phys. Soc. Japan, v. 8, No. 6, 1953). These indicate that the microhardness increases with cycles until the slip bands are formed and then decreases while the elastic properties exhibit a hysteresis loop due to internal friction losses. Changes in electrical properties, magnetic properties (see N. S. Akulov and V. A. Franyuk, Ob. izmenenii nekotorykh fizicheskikh svoystv metallov v protsesse ustalosti. Doklady AN BSSR, t. III, No. 3, 1959) and acoustic emission (see N. N. Redsterake, Metals "Sound Off" on Fatigue. "Iron Age", 192, No. 12, 1963) have also been used to study fatigue behavior. Ultrasonic techniques (see W. I. Bratina and D. Mills. Study of Fatigue in Metals using h Card 2/3

| Ultrasonic Technique. Metal Tro have become useful in determini | | v. 30, No. 213, 1963) |
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| tion and photographing of the sa having a stroboscopic flash sync figures. | IMASh-10) developed by the ample microstructure duri | damage. The authors nem which permits observa- Ing fatigue testing by |
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EWT(i)/EWT(m)/EWP(w)/EWA(i)/EWP(v)/T/EWP(t)/EWP(h)/EWP(b)/ 53806-65 LJP(c) JD/EM-EMP(1)/EWA(c) UR/0380/65/000/003/0056/0065 ACCESSION NR: AP5014452 620.172.25+62-75 AUTHORS: Lozinskiy, M. G. (Moscow); Romanov, A. N. (Moscow) TITLE: Basic types of microstructure deformations developing on the surface of industrial iron specimens during fatigue tests at a high temperature in a vacuum SOURCE: Mashinovedeniye, no. 3, 1965, 56-65 TOPIC TAGS: fatigue strength, iron, microstructure ABSTRACT: Testing equipment used in the iron microstructure experiments is described. The range of temperature was 20-1200C. The specimens tested were 90 mm long with a cross section 10×1 mm, and the load was symmetrical at 3000 cycles per minute. Studies were carried out after approximately 10 million cycles. Two series of investigations were conducted. In the first the dislocations Within the grains were observed, and in the second the border zone of the grains was studied. Figure 1 on the Enclosure shows typical conditions found in the first series; Fig. 2 represents group two. The specimens were studied in three temperature intervals: 20 to 4000, 5000 up to and over 8000, and 400 to 500C. Deformations (their origin and propagation) are described in full. Card 1/49

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ACCESSION NR: AP5014452

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Twelve high quality microscope photographs illustrate the experiments of both series. A special type of dislocation is shown, where "subgrains" smaller than one micron are formed within the grains. Another type of dislocation is found to be caused by recrystallization of the border zone, resulting in a change of the size of grains. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 14Jan65

ENCL: 02

SUB CODE: MM, SS

NO REF SOV: 006

OTHER: 001

Card 2/4

ROMANOV, A.N.; KHAKHINA, L.P.

Manufacture of potato chips. Kons.i ov. prom. 15 no.6:8-10 Je '60.

(MIRA 13:9)

1. TSentral nyy nauchno-iesledovatel skiy institut konservnoy i ovoshchesushil noy promyshlennosti.

(Potato chips)

ROMANOV, A.N., kand.tekhn.nauk; IVANOVA, G.A., starshiy nauchnyy sotrudnik; PETK.VICH, V.P., starshiy nauchnyy sotrudnik; CHINENOVA, E.G., starshiy nauchnyy sotrudnik; MINKVITS, M.L., mladshiy nauchnyy sotrudnik

Improved processing of peas and cereals in manufacturing food concentrates. Trudy VNIIKOP no.10:16-29 *59. (MIRA 14:8) (Food, Concentrated) (Peas) (Cereals as food)

ROMANOV, A.N., kand.tekhn.nauk; RYBIN, N.S., starshiy nauchnyy sotrudnik;

IVANOVA, G.A., starshiy nauchnyy sotrudnik; PETKEVICH, V.P.,

**tarshiy nauchnyy sotrudnik

Standard processing procedure for manufacturing food concentrates.

Trudy VINIKOP no.10142-48 159.

(Food, Concentrated)

(Food, Concentrated)

TKACHEV, Nikolay Ivanovich; GUL', V.Ye., doktor khim. nauk, prof., retsenzent; ROMANOV, A.N., kand. tekhn.nauk, retsenzent; KUZ'MINSKIY, R.V., inzh., retsenzent; D'YAKONOVA, V.P., inzh.-khim., spets.red.; MOROZOVA, I.I., red.; KISINA, Ye.I., tekhn. red.

[Plastics and their use in the bakery and yeast industry] Plasticheskie massy i ikh primenenie v khlebopekarnoi i drozhzhevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 222 p. (MIRA 17:1)

ZOTOV, V.P.; SILUYANOV, V.G.; GUGINA, Ye.F.; AUERMAN, L.Ya.; ALEKHINA, M.S.; BEZZUBOV, A.D.; BODROV, V.A.; BUDNYY, A.V.; BURTSEV, Ye.L.; VAYNSHTEYN, V.O.; GAVRILOV, A.N.; GORBATOV, V.M.; GRITSENKO, N.N.; DOLGUSHEVA, L.I.; YEDYGENOV, K.Ye.; ZHURAVLEVA. S.S.; ZACHESKIN. YR.A.; IVKIN, A.P.; IZOTOV, A.K.; IL'INSKIY, N.A.; IRINARKHOVA, A.M.; KARPENKO, A.K.; LYSOGOR, P.M.; LUPISH, A.T.; OLEYNIKOV, V.V.; ORANZHEREYEVA, V.F.; PETROV, N.A.; PYATIBRATOV, M.A.; ROMANOV, A.N.; RAUBE, P.V.; RYZHENKO, L.P.; SEMYKIN, A.A.; SHEFER, A.P.

G.IA.Ivanov; obituary. NTO 4 no.10:39 0 '62. (MIRA 15:9) (Ivanov, Georgii IAkovlevich, 1897-1962)

ROMANOV, A.N.

Some features of the ecology of capercaillies as related to the clearing of forests in the northern taiga. Trudy Komi fil. AN SSSR no.9:61-73 '60.

(CHIKSHIMA VALLEY_GROUSE) (FOREST FAUNA)

(CHIKSHIMA VALLEY_GROUSE) (FOREST FAUNA)

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BABENKO, A.S., inzhener; ROMANOV, A.N., inzhener.

Using large panel blocks. Elek, sta. 24 no.7:46-47 Jl '53. (MLHA 6:7)
(Buildings, Prefabricated)

ROMANOV, A. P.

"On the Determination of the Distance Traveled by Transfer Trains in Railroad Centers." Cand Tech Sci, Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov, Min Railroads USSR, Leningrad, 1955. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

ROMANOV, A.P., kand.tekhn.nauk, assistent

Establishing the scope of movement of transfer trains at the

Establishing the scope of movement of transfer trains at the

Leningrad railroad terminal. Sbor. LIIZHT no.153:43-63 '58.

(MIRA 11:8)

(Leningrad--Railroads--Yards)

ZUEKOV, I.I., kand. tekhn. nauk; ROMANOV, A.P., kand. tekhn. nauk;
TETEREV, M.N., kand. tekhn. nauk; UGRYUMOV, A.N., kand. tekhn. nauk;
KUZ'MIN, N.H., inzh. (g. Leningrad)

**Aspects of railroad operation. Zhel. dor. transp. 41 no.1:94-96

(MIRA 12:1)

Ja '59. (Railroads)

ACC NR. AiroU353U3

Monograph

UR/

Romanov, A. P.

Space center, astronauts, and outer space (Kosmodrom, kosmonavty, kosmos) Moscow, Izd-vo DOSAAF, 1966. 225 p. photos. 30,000 copies printed.

TOPIC TAGS: space program, manned spacecraft, cosmonaut

PURPOSE AND COVERAGE: This book, intended for the general reader, describes the Soviet manned space missions through the years, presenting the material in the form of a diary. The author's notes pertain to all phases of manned space missions including interviews with cosmonauts, designers, and their activities during preparations for flight, at the cosmodrome, and after flight. The author dedicates this book to scientists, designers, cosmonauts, and to the DOSAAF.

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UDC : NONE

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ROMANOV, A.P., gvardii polkovnik zapasa, byvshiy komandir eskadril'i nochnykh razvedchikov; SOKOLOV, V.P., gvardii polkovnik, Geroy Sovetskogo Soyuza, byvshiy pomoshchnik komandira polka

Aerial scouts. Vest. Vozd. Fl. no.7:77-83 Jl 161. (MIRA 14:8) (World War, 1939-1945-Aerial operations)

ROMANOV, Aleksandr Petrovich; VODOLAGIN, V., red.; TROYANOVSKAYA, N., tekhn. red.

[The course of events...; from the diary of a Tass special reporter] Kak eto bylo...; iz dnevnika spetsial nogo korrespondenta TASS. Moskva, Gos.izd-vo polit.lit-ry, 1961. 53 p. (MIRA 15:1)

1. Spetsial'nyy korrespondent TASS (for Romanov).
(Astronautics)

Effect of cutting on the young growth of finithe southern part of the Kokchetav-Munchaktinskiy peneral n. lzv. AN Kazakh. SSR. Ser. biol. nauk 3 no.1:38-43 Ja-F' (MIRA 18:5)

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| (TSelinograd ProvinceStorms) | Unprecedented windfall. Priroda 51 no.3:74-75 Mr '62. (MIRA 15:3) |
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ROMANOV, Aleksandr Petrovich, inzh.; POLOZOV, P.S., red.; YEGOR KOV, N.F., izd.red.; BELOGUROVA, I.A., tekhn.red.

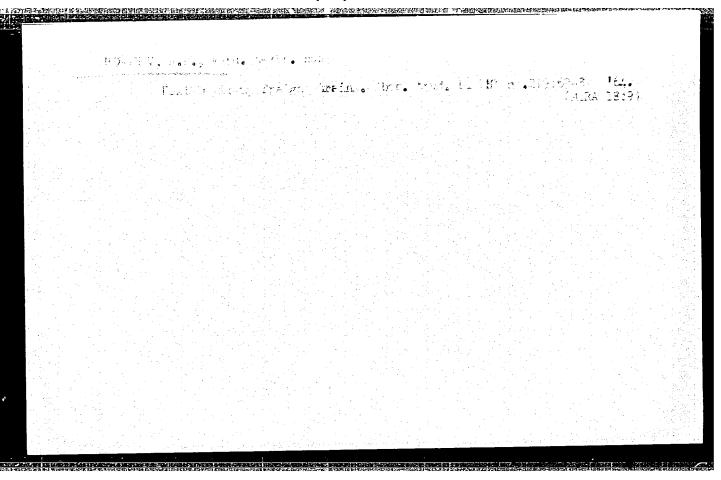
[Organizing the maintenance of die-stamping equipment in sheet-metal working plants] Organizatsiia shtampovogo khoziaistva v tsekhakh kholodnoi shtampovki; stenogramma lektsii, prochitamnoi v IDATP na zaniatii seminara po kholodnoi shtampovke. Leningrad, 1960. 31 p. (MIRA 14:6)

(Dies (Metalworking))

ROWARD, A.P., kand. tekhn.

Selecting the weight
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(MIRA 18:9)



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| | ACCESSION MR: AP5022000/ 4455 UR/0286/65/000/014/0076/0076 | 1 | |
| | AUTHOR: Boguslavskiy, D. B.; Borodushkina, Kh. H.; Halinovskiy, H. S.; Kolenskaya, A. I/; Kupriyanova, O. H.; Rossova, A. S.; Sepronov, V. A.; Trokay, S. P.; Chavchich, T. A.; Turiline, L. H.; Kovaleva, V. F. | • | |
| | TITLE: A method for vulcanizing rubber. Class 39, No. 172900 15 | | |
| | SOURCE: Byulleten' izobreteniy i towarnykh znakov, zo. 14, 1965, 76 | | |
| | TOPIC TAGS: vulcanization, rubber, polymer, polyester plastic ABSTRACT: This Author's Certificate introduces a method for vulcanizing rubber by | | |
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SOV/137-59-1-490

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 62 (USSR)

AUTHOR:

Romanov, A.S.

TITLE:

The Employment of Ammonia in the Cyanidation of Copper Ores

(Primeneniye ammiaka pri tsianirovanii medistykh rud)

PERIODICAL: Tr. Sev-Kavkazsk. gorno-metallurg. in-ta, 1957, Nr 15, pp 289-306

ABSTRACT: In the process of extraction of Au and Ag from ores by the method of cyanidation (C) the amount of cyanide consumed is considerably increased if Cu is also contained in the ores. A method of ammonia C was tested in order to determine more precisely the chemical processes involved and to develop conditions ensuring economical processing of Cu ores by this method. The effect of NH3 on the dissolution (D) of pure Au and Cu minerals was investigated, ammoniacyanide complexes (ACC) of Cu were obtained, and certain of their properties were studied; experiments dealing with the C of Cu ores were carried out both with and without the employment of NH4Cl. The following conclusions were reached: 1) The widespread opinion

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regarding the high activity of ammonia-cyanide solutions is

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The Employment of Ammonia in the Cyanidation of Copper Ores

erroneous because NH₃ and its salts do not affect the rate of D of the Au and its alloys in cyanide. 2) NH₃ considerably hampers the D of Cu minerals in cyanide owing to the formation of insoluble ACCs

 $[Cu(NH_3)_4][Cu_2(CN_3)]_2$ and $[Cu(NH_3)_2][Cu(CN)_2]$.

The mechanism of the formation of the ACC's is shown. 3) Under certain conditions ammonia C may ensure a high degree of extraction of Au from a solution containing small quantities of Cu (less than 0.013-0.014%); this is attributable to the formation of ACC's during the process of C, as well as to their precipitation from the solution. The D of Au occurs as a result of the liberation of cyanide during the formation of the ACC's of Cu. 4) In the course of the process itself, NH3 is formed when a salt of NH4 is added to the cyanide solution. Compared with NaOH, lime gives better results as an alkali agent. 5) The ammonia C process has been employed with ores containing oxidized Cu minerals which are soluble in NH3. Optimal results with regard to extraction of Au and the content of Cu in the solution are attained when the ratio KCN_{total} / Gu_{solution} -1.5. 6) The consumption of cyanide constitutes 1.6 mole per 1 atom of Cu as compared with 3.5 moles in the case of the standard C method. The consumption of the NH4Cl constitutes one part to one part (by weight) of Cu contained in the ore, i.e., it Card 2/3

SOV/137-59-1-490

The Employment of Ammonia in the Cyanidation of Copper Ores

exceeds the theoretical consumption by a factor of 1.5. 7) In order to prevent the contamination of air with the toxic NH4CN, NH4Cl should be introduced into the solution only after the cyanide has been used up completely. The introduction of the NH4Cl into the solution in several batches represents the most rational method.

N.P.

Card 3/3

Ageyenkov, V.G., AUTHORS:

Romanov, A.S., Svistunov, N.V.

Matte Smelting as a Method of Recovering Gold from TITIE:

Rich Sulphide Concentrates (Playka na shteyn kak sposob

izvlecheniya zolota iz bogatykh sul'fidnykh kontsentratov)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya

Metallurgiya, 1958, Nr 4, pp 109-118 (USSR)

As a result of the growing practise of enriching the ABSTRACT: gold-bearing ores, substantial quantities of rich

sulphide concentrates, often containing a large (10-18%) proportion of copper, are produced by various mining

concerns of East Siberia. Since recovery of gold from this type of material by the conventional methods (i.e. amalgamation or cyaniding) is difficult, these concentrates are sent to various copper-smelting works in the Urals, where gold is recovered by copper matte smelting. Although no objections can be raised to

this process on technical grounds, the practise as such is very wasteful and uneconomical owing to:

(i) Very high costs of transport; (ii) considerable Card 1/7

Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

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losses of the concentrates in transit (while loading and unloading) and (iii) increased proportion of gold lost in the waste slags produced in large quantities when the gold-bearing concentrates are smelted with a much larger proportion of copper bearing material. It has been suggested that this problem could be solved more economically by building (e.g. in the Chitin region) a special, small smelting works for processing the Siberian concentrates with the siliceous gold-bearing ores from the Taseye wo deposits (at present also smelted in the Ural works) used as a flux. However, before realisation of such a project could be considered, a number of technical problems had to be solved and the object of laboratory experiments described in the present article was to evaluate (in terms of the maximum attainable recovery of gold) the practicability of matte smelting process for treating the Siberian concentrates, determine the

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recording the strategical production of the second contract contra

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Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

optimum operating conditions, etc.. The composition of three different concentrates - with the gold content ranging between 48.3 and 246.5 g/ton - and the flux (Taseyev quartz ore containing 194.4 g/ton gold) used in the experiments is given in Table 1. The charge was calculated to give a low melting point, low density slag containing 48% SiO2, 20% FeO and 22% CaO. Lime was used as the basic flux and, since no converter slag was available, a quantity of Fe₂0₃ was added to the charge. The results obtained under various operating conditions were assessed on the basis of the gold and silver content in the slag. In the first series of experiments, the effect of variation of the matte yield on the recovery of gold, silver and copper was studied (Table 2, Fig.1). The yield of matte was controlled by varying the proportion of lime in the charge: With the lime content increasing from 0 to 10%, the matte yield increased from 13-19% of the charge Card 3/7 and the recovery of all three metals increased (in the

Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

case of gold from 85 to 97.9%). However, under these conditions variation of the matte yield was accompanied by variation of the composition of the slag which in turn affected the degree of gold recovery. Consequently, in the next series of tests in which various quantities of matte of known composition were added to the charge, the composition of the slag was maintained practically constant while the matte yield varied between 14 and 25%. Under these conditions recovery of gold increased from 97.1 to 99% and its content in the slag decreased from 3.8 to 1.6 g/ton (Table 3, Fig.2). Fig.3 shows how recovery of gold and copper varied when both the yield and composition of matte were varied: In this case the relationship between recovery of gold and the matte yield was quite different. When the yield decreased (i.e. when the copper content of the matte Card 4/7 increased from 14 to 55%) recovery of gold increased from 97.1 to 99.06%. (This effect was attributed to

Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

the fact that the richer the matte, the larger proportion of metallic copper it contains. Since gold is easily soluble in copper and since it is believed that no gold is present in the sulphide phase, enrichment of the matte results in higher recovery figures.) In the last series of experiments the effect of the sulphur content in the slag on the magnitude of gold losses was examined (Fig.4). When the amount of sulphur present in the slag increased from 0.2 to 1.0%, the losses of gold increased from 2 to 12 g/ton of slag. These results indicated that practically all gold lost in the slag was contained in the matte inclusions, the presence of which - in the form of large globules or emulsified particles - was confirmed by microscopic examination (Fig.5 and 6). The highest concentration of the matte inclusions was observed near the matteslag interface and near the slag surface. Matte inclusions in the lower portion of the slag layer were attributed to insufficiently long duration of the

Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

smelting operation, those near the top had been carried there by gas bubbles (Fig.6). The results obtained by the present Authors show conclusively that the Siberian concentrates could be effectively treated by matte smelting followed by conversion to yield crude gold-bearing copper. (The flow sheet of the proposed process is shown on Fig.7.) Since high values of gold recovery (99%) can be attained within wide variations of the matte yield and composition and since the gold losses are determined mainly by the nature of slag and the duration of the holding period, smelting to low melting point slag is recommended. Under such conditions gold losses could be limited to 1 g/ton of

Card 6/7

Matte Smelting as a Method of Recovering Gold from Rich Sulphide Concentrates

slag and 0.9-1.0 ton of the Taseyevoore could be treated with each ton of the Siberian concentrates. There are 7 figures, 3 tables and 2 Soviet references.

ASSOCIATION: Severokavkazskiy Gornometallurgicheskiy Institut.

Kafedra Metallurgii Blagorodnykh i Redkikh Metallov

(North Caucasian Mining-Metallurgical Institute,

Chair for Metallurgy of Noble and Rare Metals)

SUBMITTED: 21st April 1958.

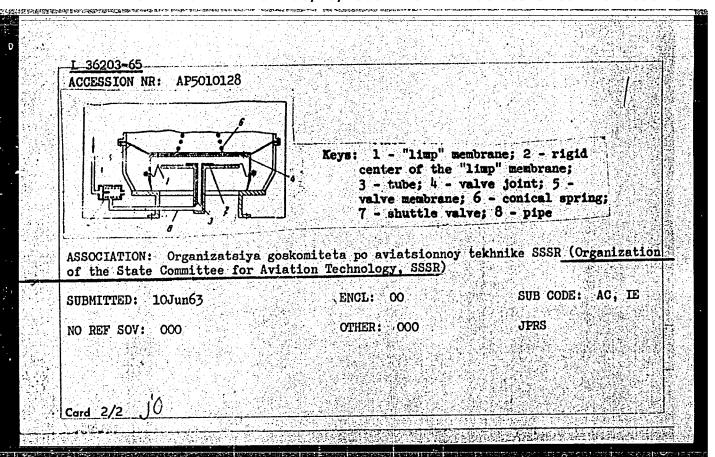
Card 7/7

ROMANOV, A. S., Candidate of Tech Sci (diss) -- "Copper in the cyanide process".

Moscow, 1959. 12 pp (Min Higher Educ, Moscow Inst of Nonferrous Metals and Gold
im M. I. Kalinin), 170 copies (KL, No 21, 1959, 116)

| ROMANOV. | A.S. | |
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| American respective security | Some problems of cyanidation of cuprous gold ores. | Izv.vys. IRA 13:1) |
| | 1. Severokavkasskiy gornometallurgicheskiy institut metallurgii blagorodnykh i redkikh metallov. (Cyanide process) | . Kafedra |
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L 36203-65 EWT(1)/EWG(v)/EPR/1-2/EPA(bb)=2 Pe-5/Ps-4 WW.
ACCESSION NR: AP5010128 UR/0286/64/000/013/0007/0007/
AUTHOR: Nikolayev, N. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Perepletchikov, L. Ya.; Romanov, A. S.; Vzorov, M. I.; Perepletchikov, L. Ya.; Romanov, A. S.; Perepletchikov, L. Ya.; Roman



L 34862-65 EVT(d)/EWT(1)/EWT(m)/EWP(f)/EWQ(v)/EPR/T-2/EPA(bb)-2/EWA(c) Pe-5/Ps-4 5/0286/65/000/004/0096/0096 ACCESSION NR: AP5007486

AUTHORS: Nikolayev, N. S.; Vzorov, M. I.; Romanov, A. S.; Perepletchikov, L. Ya

TITLE: A slave valve with positive pneumatic closing. Class 47, No. 168565.

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 96

TOPIC TAGS: pneumatic device, valve

ABSTRACT: This Author Certificate presents a slave valve assembly with positive pneumatic closing. The assembly includes a casing with a cover and a nozzle, the basic valve fastened to a spring-loaded membrane, and a "repeater" (see Fig. 1 on the Enclosure). The device is provided with a pneumatic unit which contains a shuttle valve with a spring, two check valves, a spring-loaded membrane with a rigid center to which a needle valve is attached, and a two-way stopcock. The nozzle of the casing is provided with a check valve mounted on the side of the housing of the basic valve. Orig. art. has: 1 figure.

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR (Organization of the State Committee for Aviation Technology, SSSR)

SUBMITTED: 10Jan64 NO REF SOV: 000

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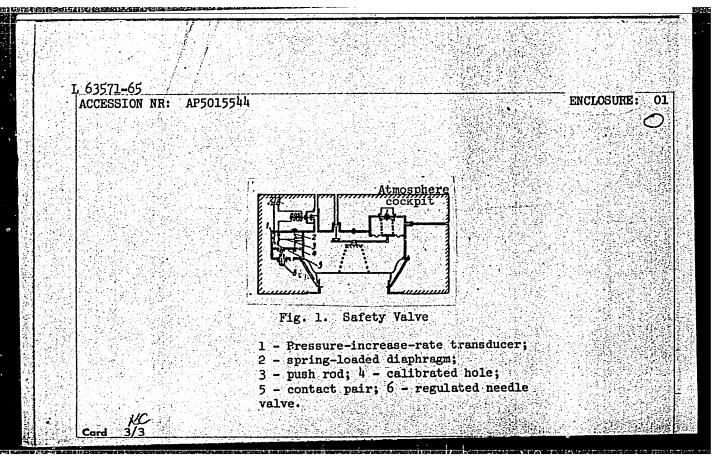
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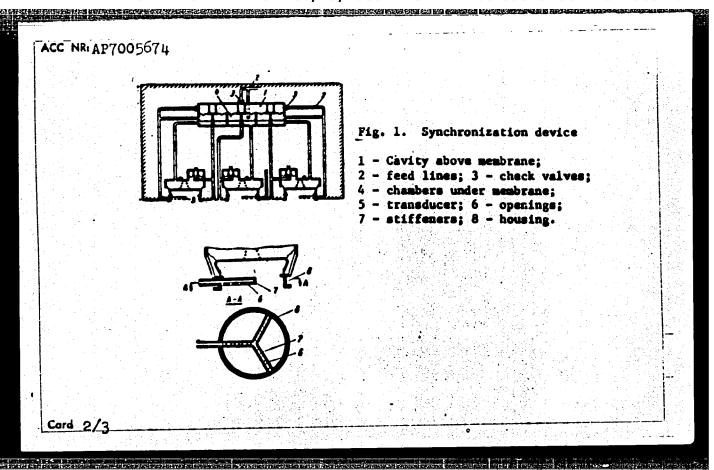
| UR/0286/65/000/008/008 621.646 629.13.01/.06 UTHOR: Barinov, V. S.; Voronin, G. I.; Vzorov, M. I. Perepletchikov, L. Ya tomanov, A. S. ITLE: Safety valve for hermetically sealed aircraft cockpits. Class 47, o. 170256 OURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 82-83 OPIC TAGS: pressure valve, safety valve, cockpit pressurization rate contractsurized cockpit, aircraft cockpit, pressure rate transducer BSTRACT: An Author Certificate has been issued for a safety valve for a heally sealed aircraft cockpit. The valve consists of a casing, a cover having pray nozzle, a basic valve mounted on the rigid center of a spring-loaded dian excess-pressure unit. To limit the pressure-increase rate in the coches after valve is equipped with a pressure-increase-rate transducer whose a divided into two cavities by a spring-loaded diaphragm with a push rod month. | -5/ |
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| L 63571-65 ACCESSION NR: AP5015544 the other cavity containi | ng a contact pair, con | ects to the cockpit through a | 1 |
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| regulated needle valve, C when pressure on the trans point. (See Fig. 1 of Enc. ASSOCIATION: Organizatsiy | losure of the contact p ducer's spring-loaded of losure.) Orig. art. he a gosudarstvennogo komi | pair is performed by the push in liaphragm decreases to a certains: I figure. teta po aviatsionnoy tekhnike | n [LB] |
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SOURCE CODE: UR/0413/67/000/002/0144/0144 ACC NRIAP7005674 INVENTOR: Yefimov, K. P.; Romanov, A. S.; Terenin, A. P.; Chizhikov, Yu. V. ORG: none TITLE: Device for synchronizing the operation of the exhaust valves of a pressure regulating system for pressurized cabins. Class 47, 190747 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 144 TOPIC TAGS: pressure regulator, aircraft cabin equipment, rele, colin presentation, spenciest carried againment ABSTRACT: The proposed synchronizing device consists of a housing whose cavity contains spring-loaded elastic membranes with by-pass valves fastened to them. These valves shut off the main ducts connecting the exhaust valve 621.646 UDC: 629.13.01/06 Cord 1/3



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ACC NR. AP6025664

SOURCE CODE: UR/0413/66/000/013/0131/0131

INVENTOR: Vzorov, M. I.; Romanov, A. S.

ORG: None

TITLE: An actuating valve. Class 47, No. 183552

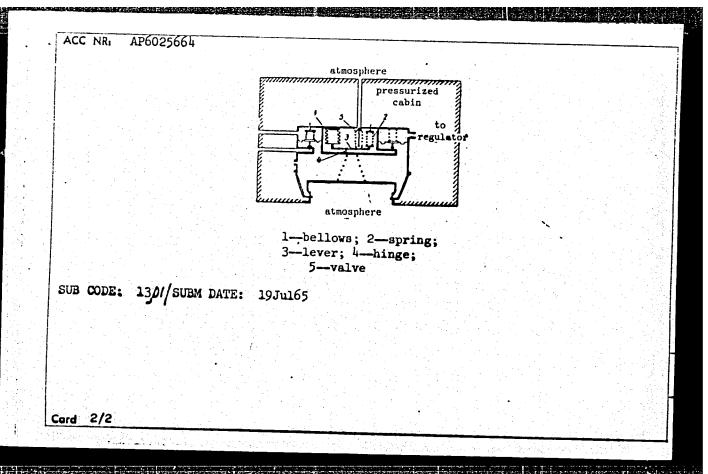
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 131

TOPIC TAGS: automatic pressure control, valve

ABSTRACT: This Author's Certificate introduces an actuating valve based on Author's Certificate No. 168096. Cabins do not have to be pressurized when control equipment or the "follower" unit go out of adjustment. The actuating valve has a unit which cuts in an evacuated bellows connected to the regulating spring by a lever set on a cuts in an evacuated bellows connected to the regulating spring by a lever set on a hinge. A spring loaded valve is mounted on this lever. This valve covers the channel passage which connects the primary valve cavity with the atmosphere when cabin pressure drops below the permissible minimum.

Card 1/2

UDC: 621.646 629.13.01/06



ACC NR: AP6029950

SOURCE CODE: UR/0413/66/000/015/0127/0128

INVENTOR: Vzorov, M. I.; Romanov, A. S.; Yefimov, K. P.; Terenin, A. P.

ORG: none

TITLE: Actuating valve. Class 47, No. 184575

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 127-128

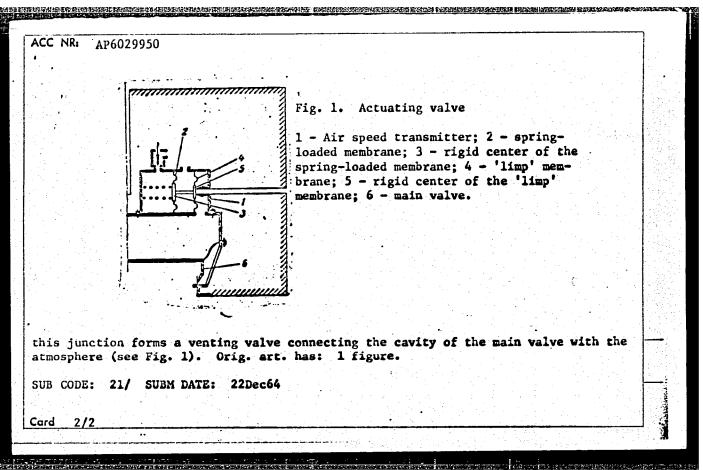
TOPIC TAGS: valve, actuating valve, aircraft cabin environment, aircraft cabin equipment, pressure regulator, hermetic seal

ABSTRACT: An attempt has been made to simplify the design and increase the reliability of an actuating valve for hermetic aircraft cabin previously described in Author Certificate No. 170256. In the improved valve, the pressure increment chamber of the air speed transmitter has a rigid center in the spring-loaded separating membrane which is connected with the rigid center of a 'limp' membrane;

UDC: 621.646

Card 1/2

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Abstract : The operation and structure of a gang blanking-die, designed by T. Rusakov,

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Institution: ...

Submitted : ...

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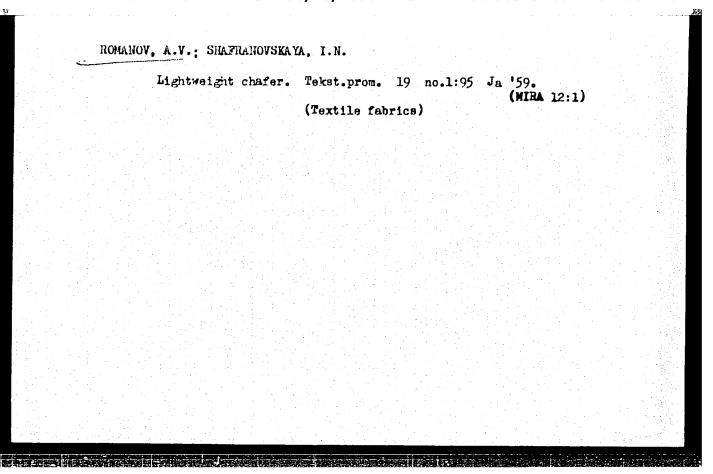
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